

In the Claims

Please amend the claims as follows:

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1. (Currently Amended) An actuator assembly for an information handling system comprising:

a stationary shaft;

a main body having ~~an axis of rotation and~~ an opening therein positioned around the ~~axis of rotation~~ shaft such that the main body is rotatable about the shaft;

at least one actuator arm attached to the main body; and

~~a portion of a voice coil motor positioned within the opening of the actuator assembly;~~

a voice coil motor comprising at least two magnets, the magnets being supported by the main body within the opening.

2. (Canceled)

3. (Currently Amended) The actuator assembly for an information handling system of claim 1 wherein the ~~voice coil motor further comprises at least two magnets attached to the main body of the actuator arm, wherein the magnets form a rotor of the voice coil motor.~~

4. (Previously Presented) The actuator assembly for an information handling system of claim 3 wherein the voice coil motor further comprises a coil about which the rotor rotates.

5. (Currently Amended) The actuator assembly for an information handling system of claim 1 wherein ~~the voice coil motor further comprises a plurality of magnets attached to the main body of the actuator arm, wherein~~ at least two of the magnets are adjacent one another, and the orientation of adjacent magnets are substantially orthogonal to one another.

6. (Currently Amended) The actuator assembly for an information handling system of claim 1 wherein the ~~voice coil motor further comprises a plurality of magnets~~ are substantially circularly oriented so that the magnetic flux outside a perimeter of the circularly oriented magnets is negligible.

7. (Currently Amended) The actuator assembly for an information handling system of claim 1 wherein the ~~voice coil motor further comprises a plurality of magnets~~ are arranged as a Halbach array.

8. (Currently Amended) The actuator assembly for an information handling system of claim 1 wherein ~~the voice coil motor positioned within the opening of the actuator assembly~~ is positioned near one end of the actuator assembly and at least one load spring and transducer are positioned at the other end of the actuator assembly.

9. (Currently Amended) An information handling system comprising:

a base;

a yoke attached to the base;

a coil attached to the yoke;

a ~~disc rotatably~~ storage medium attached to the base; and

an actuator assembly having an opening therein, the actuator assembly further including at least two magnets positioned near the opening, the magnets and coil forming a voice coil motor, the actuator assembly capable of swinging through an arc and rotatably attached to the base about the yoke.

10. (Original) The information handling system of claim 9 wherein the voice coil motor further comprises a plurality of magnets attached to the main body of the actuator assembly, wherein the orientation of adjacent magnets are substantially orthogonal to one another.

11. (Previously Presented) The information handling system of claim 9 wherein the voice coil motor further comprises a plurality of magnets substantially circularly oriented so that the magnetic flux outside a perimeter of the circularly oriented magnets is negligible.

12. (Original) The information handling system of claim 11 wherein the voice coil motor further comprises a plurality of magnets arranged as a Halbach array.

13. (Original) The information handling system of claim 11 wherein the yoke is made of a material capable of absorbing heat.

14. (Original) The information handling system of claim 11 wherein the yoke is formed of the same material as the base.

15. (Original) The information handling system of claim 11 wherein the yoke is formed integral with the base.

16. (Original) The information handling system of claim 11 wherein the yoke is formed integral with the base and wherein the coil is wrapped about the yoke so that the base and the yoke act as a heat sink for heat generated by passing current through the coil.

17. (Original) The information handling system of claim 9 wherein the voice coil motor produces a first moment about a pivot and a second moment about the pivot, the first moment being substantially offset by the second moment.

18. (Original) The information handling system of claim 9 wherein the voice coil motor is a true torque motor.

19. (Previously Presented) An information handling system comprising:

a base;

at least one storage medium attached to the base;

an actuator assembly rotatably attached to the base, the actuator capable of passing through an arc;

means for moving the actuator assembly, the moving means being attached to the actuator assembly.

20. (Previously Presented) The information handling system of claim 19 wherein the moving means includes a voice coil motor.

21. (Previously Presented) The information handling system of claim 19 wherein the moving means further comprises at least two magnets attached to the main body of the actuator arm.

22. (Currently Amended) The information handling system of claim 19 wherein the moving means further comprises a coil attached to the base of the disc drive.

23. (Previously Presented) The information handling system of claim 20 wherein the voice coil motor further comprises at least two magnets attached to the main body of the actuator arm, wherein the magnets form a rotor of the voice coil motor.

24. (Previously Presented) The information handling system of claim 23 wherein the voice coil motor further comprises a coil about which the rotor rotates

25. (Previously Presented) The information handling system of claim 20 wherein the voice coil motor further comprises a plurality of magnets attached to the main body of the actuator arm, wherein the orientation of adjacent magnets are substantially orthogonal to one another.

26. (Previously Presented) The information handling system of claim 20 wherein the voice coil motor further comprises a plurality of magnets substantially circularly oriented so that the magnetic flux outside a perimeter of the circularly orientated magnets is negligible.

27. (Previously Presented) The information handling system of claim 20 wherein the voice coil motor further comprises a plurality of magnets arranged as a Halbach array.

28. (Previously Presented) The actuator assembly of claim 1, in which the information handling system comprises a disc drive.

29. (Previously Presented) The information handling system of claim 19, in which the storage medium comprises a magnetic medium.

30. (Previously Presented) The information handling system of claim 19, in which the storage medium comprises a rotating disc.

31. (New) The information handling device of claim 9, in which the storage medium comprises a rotating disc.